

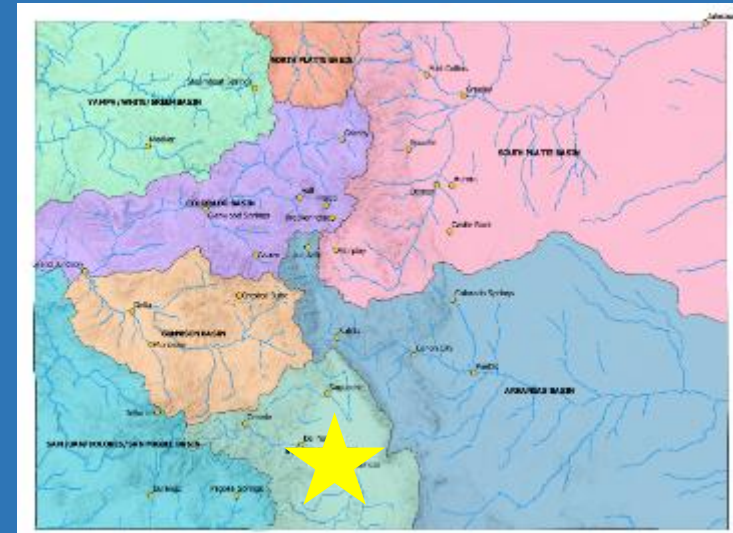
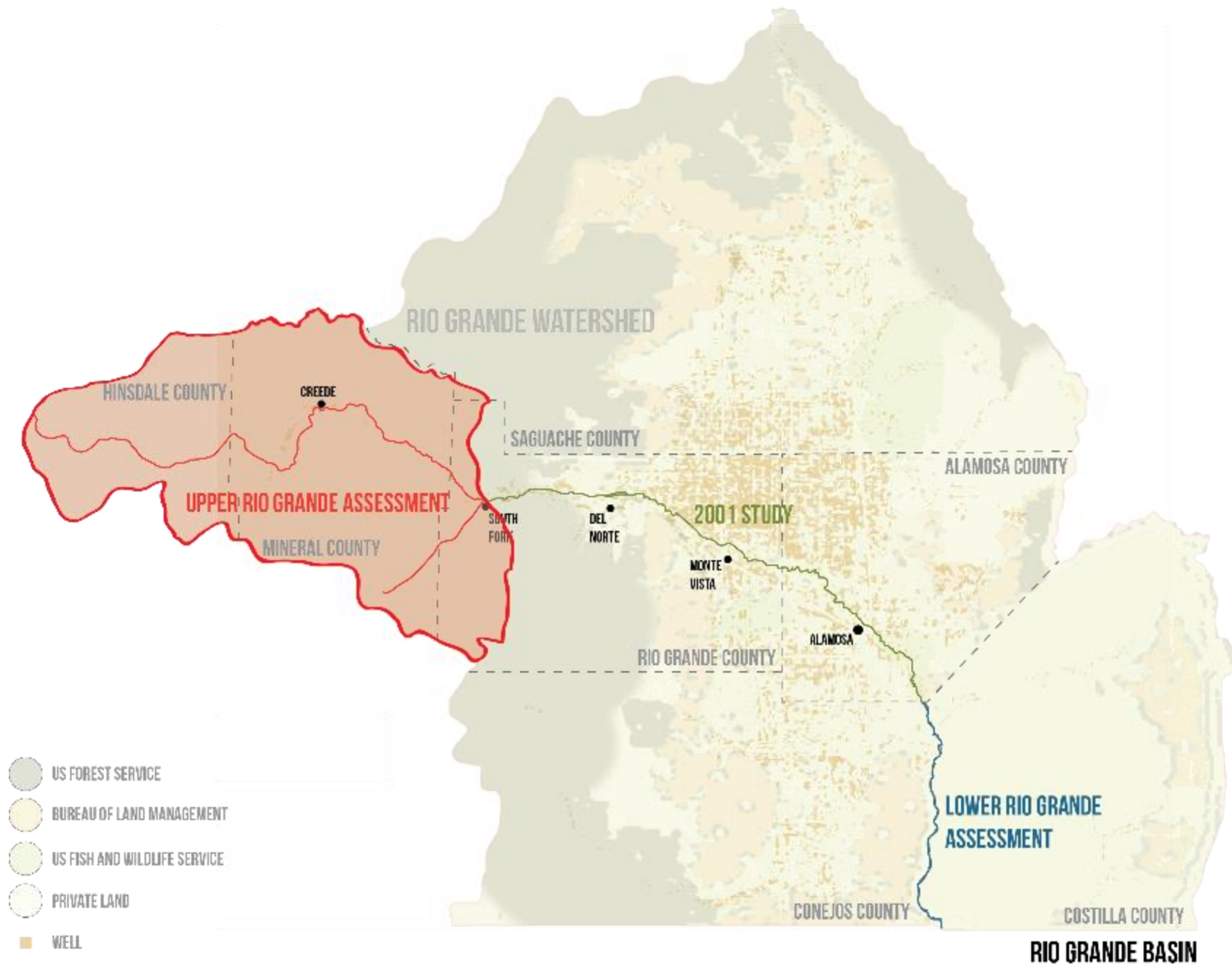
Plans and Projects

Part 2

Rio Grande

San Luis Valley Water
Conservancy District

Rio Grande
Headwaters
Restoration Project





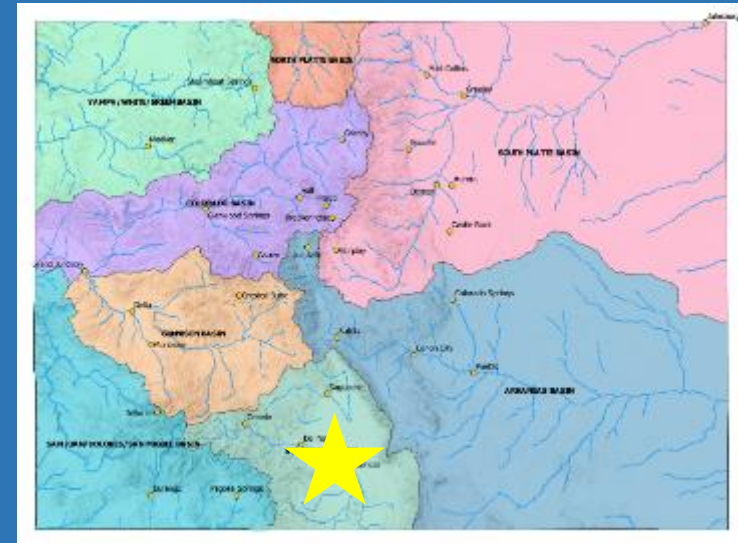
Infrastructure

- sediment and debris
- poorly functioning
- high Maintenance

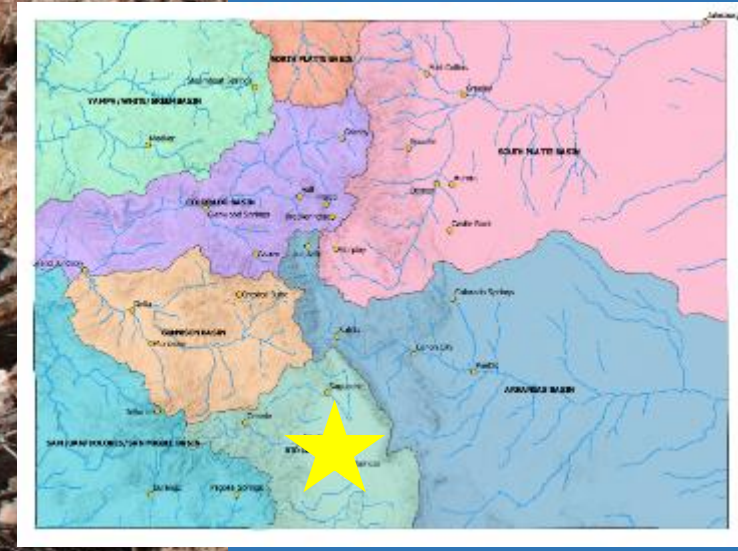


Geomorphology

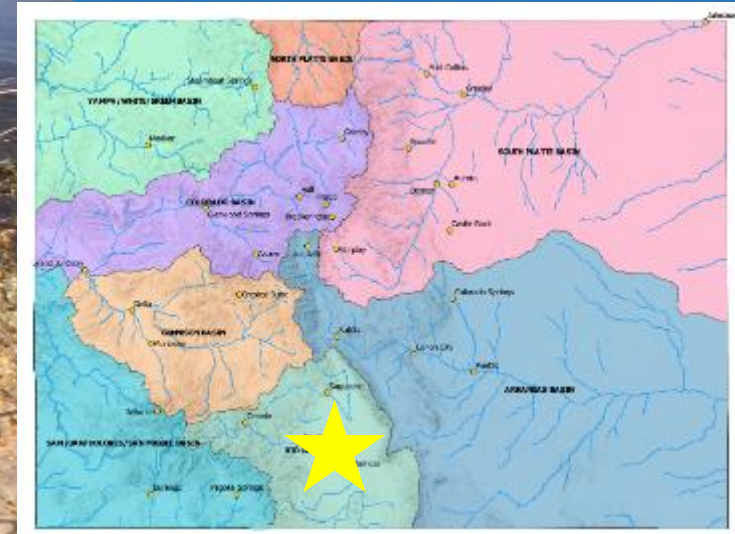
- erosion
- degraded
- habitat
- Impaired water quality



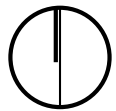
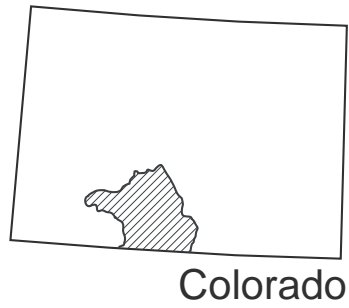
Prairie Ditch Diversion- Before



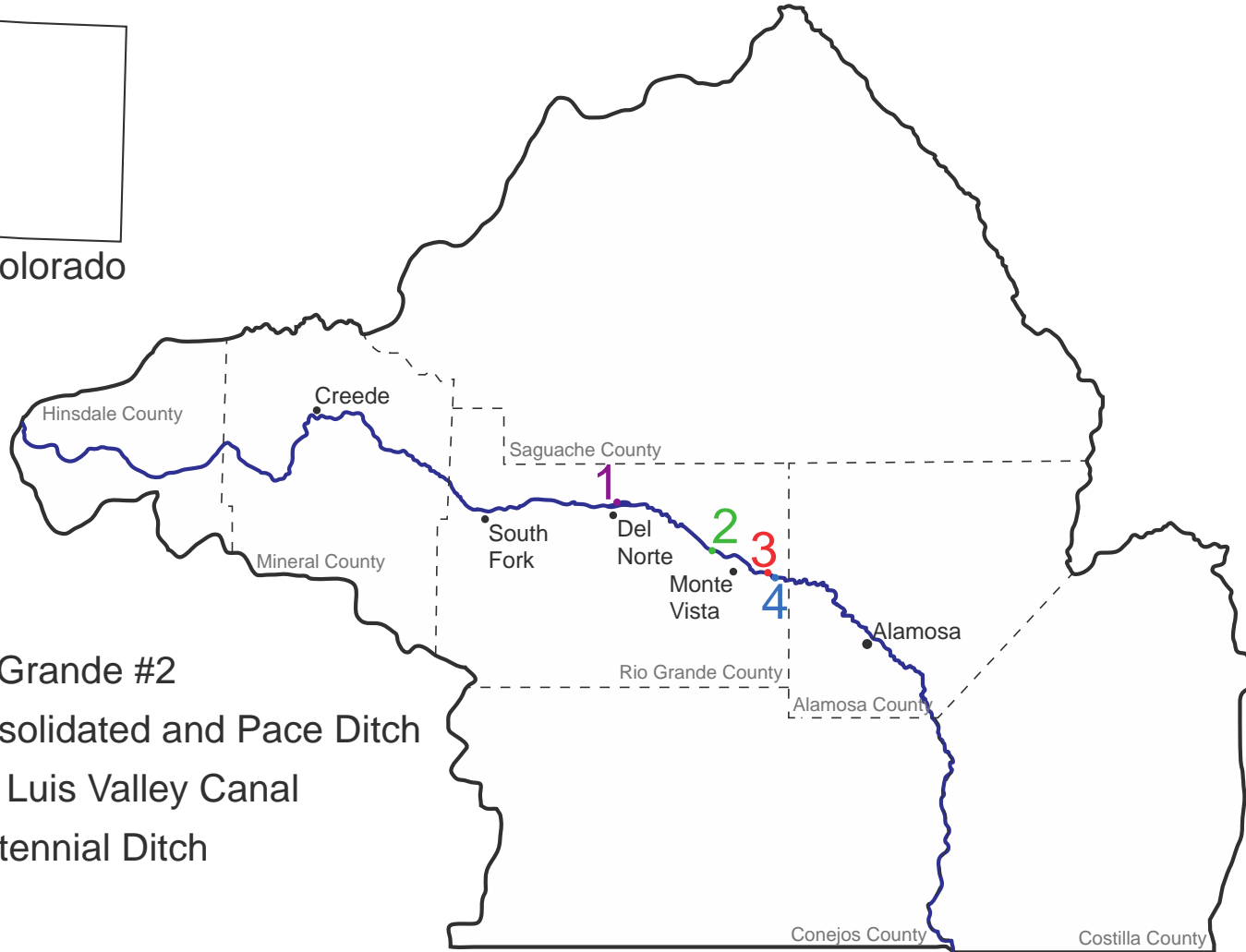
Prairie Ditch Diversion- After



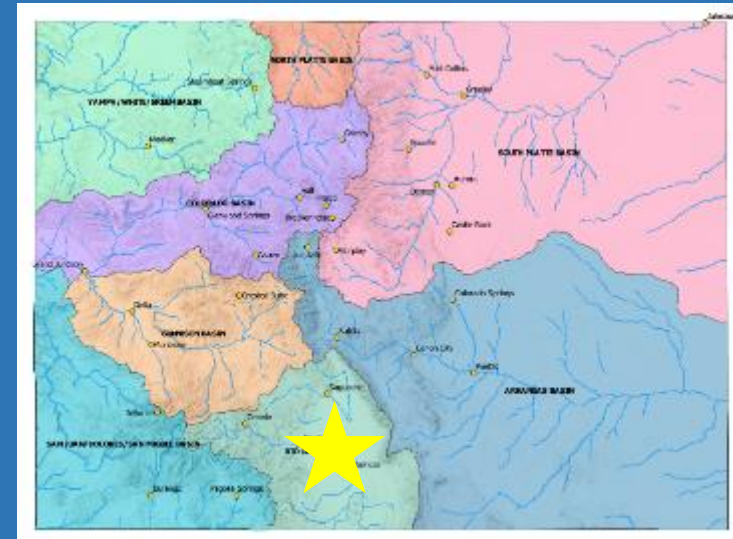
5 Ditches Project



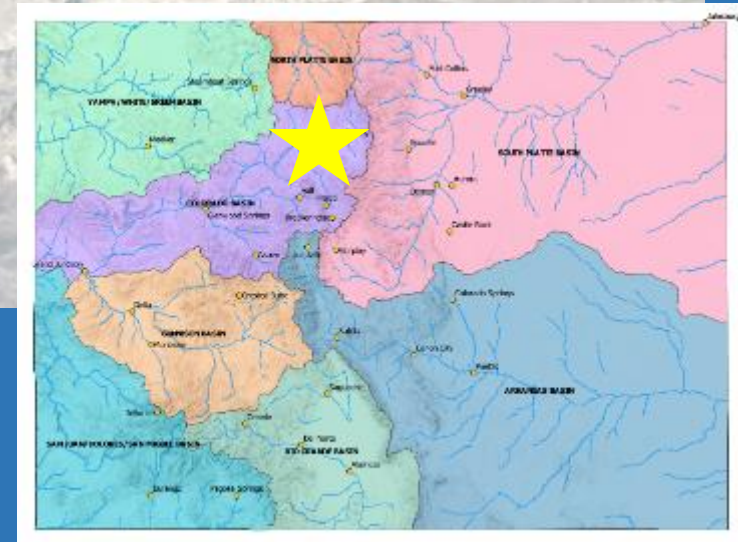
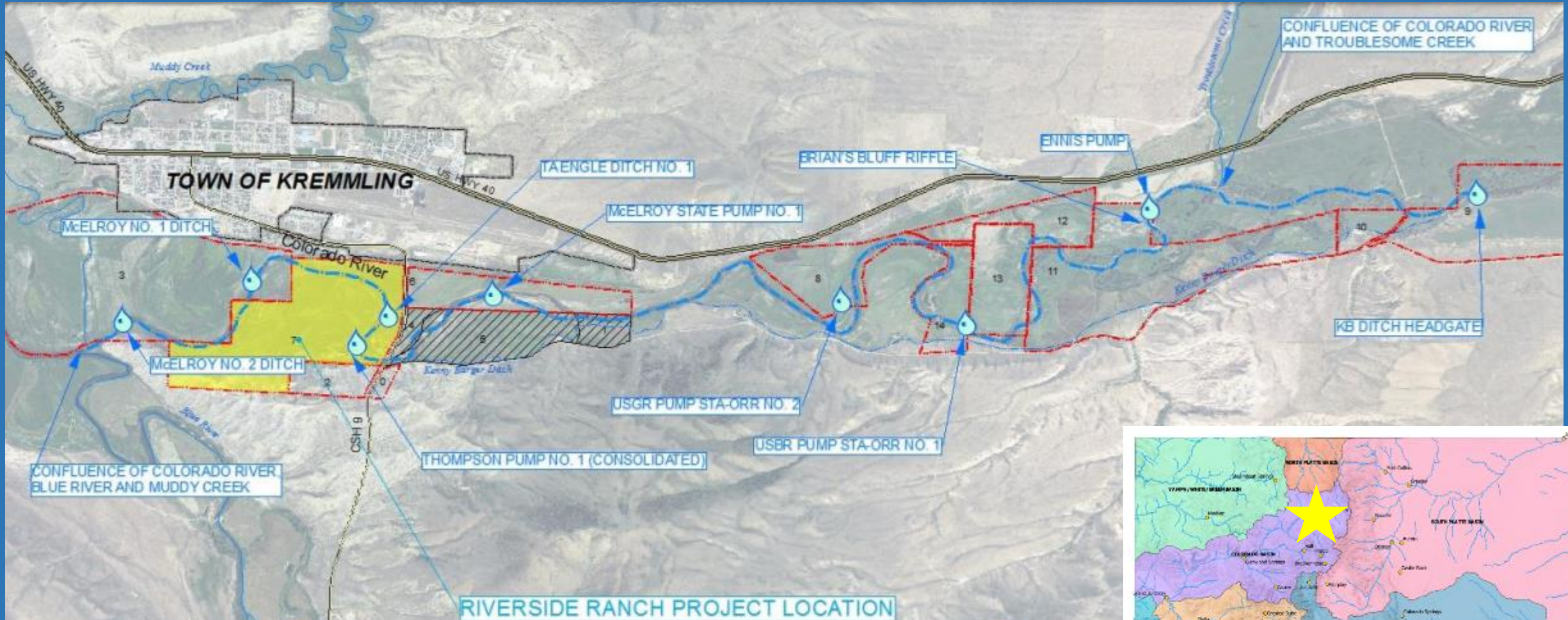
- 1 Rio Grande #2
- 2 Consolidated and Pace Ditch
- 3 San Luis Valley Canal
- 4 Centennial Ditch



Rio Grande Basin
Location Map



Colorado River, Grand County



Colorado River, Grand County

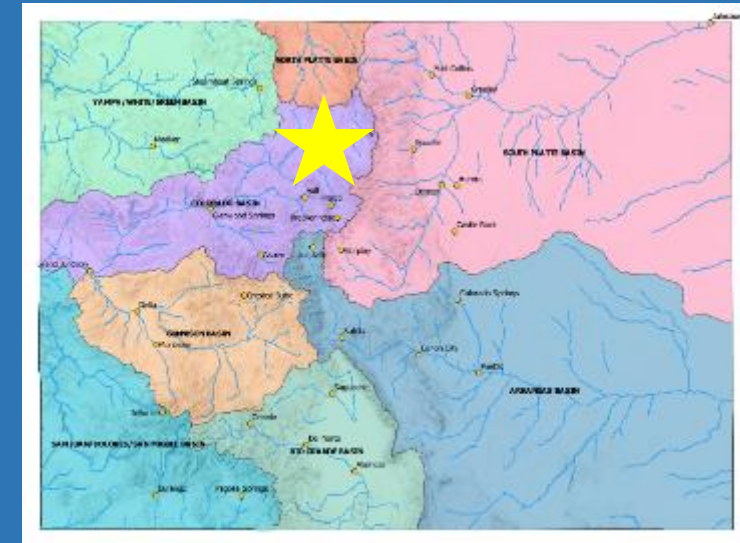
Senate Document 80 - 1937

Authorized Colorado-Big Thompson

Lake Granby, Green Mountain Reservoir, Adams Tunnel, etc.

In response to concerns that with decreased flows diversion would require pumping SD 80 included requirement that an :

"adequate system as determined by the Secretary of the Interior...The rights to the use of water for the irrigation of these lands shall be considered to have a date of priority earlier than that of the rights to the use of water to be diverted through the works of this project to the Eastern Slope."



ES2. Summary of Objectives and Methods

ES2.1. Objectives

For environmental target flows, the primary objectives have been to 1) acquire, analyze, and evaluate hydrologic data describing streamflow regimes of the study reaches; 2) acquire, analyze, and evaluate channel morphology, hydraulic geometry, and aquatic habitat information for the project reaches to describe habitat-flow relations for target fish species and life stages; and 3) based upon our findings under Objectives 1 and 2, recommend target flows for the project study area that will likely protect environmental values. Recommendations for environmental flows also include review of existing temperature and water quality data relative to current standards and biological limitations for the fish species of concern. In addition to determining environmental flows, flow conditions for other water users are considered and, in some cases, may exceed those values recommended for environmental flows. Water users include irrigators, municipalities and industries, and recreational users.

Irrigators/diverters: In general, most users are experiencing some difficulty in retrieving or using water, especially during the recent drought years. Many irrigators, especially along CR4 and CR5 are constructing make-shift cobble dams to divert flows into and through their headgates. In CR6 where diversions are made by pumping, flows are limited by the available supply as well as by nuisance clogging from algae growth. Some pump intakes must be cleaned daily to remove algae, and in some cases up to three times a day, for the pumps to operate properly (Thompson 2007).

Colorado River, Grand County



Colorado River, Grand County

